GT200-DP-CO

CANopen/PROFIBUS DP Gateway

Product Overview

GT200-DP-CO is a gateway that provides a seamless connection between CANopen and PROFIBUS DP, and establishes communication between them. It acts as a slave at PROFIBUS DP side and master/slave device at CANopen side.

Technical Specifications

[1] Communication baud rate:

   CANopen baud rate: 50kbps, 100kbps, 125kbps, 250kbps, 500kbps and 1Mbps;

   PROFIBUS DP baud rate is self-adaptive and can be up to12Mbps;

[2] CAN: ISO 11898-compatible CAN interface is CAN2.0A type with an 11-bit identification;

[3] DS-301 V4.01 and CiA Draft Recommendation 303 compliant;

[4] CANopen master: supports maximum 8 bytes TPDO and 8 bytes RPDO, fast Download SDO and fast Upload SDO;Each CANopen node has 4 default TPDO and 4 default RPDO;

[5] CANopen slave: supports maximum 8 bytes TPDO and RPDO, 4 bytes fast Download SDO and fast Upload SDO; It has up to 42 TPDO and 42 RPDO;

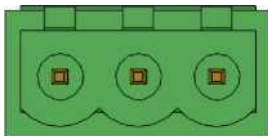[6] Each CANopen node can has self-defined COBID or use default COBID;

[7] Power: 24VDC (11V-30V), maximum 90mA (24V);

[8] Operating temperature: -4°Fto 140°F(-20°C~60°C);

[9] External dimensions (W*H*D): 0.98 in*3.94 in*3.54 in (25mm*100mm*90mm);

Power Interface

GND   NC   24V+

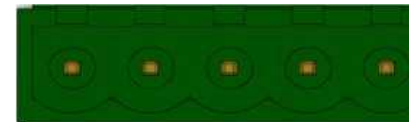| Pin	Function
1	GND, Power GND
2	NC(Not Connected)
3	24V+, DC Positive 24V

Features

➢ Supports one CANopen master interface;
   CANopen interface: 1KV photoelectric isolation;

➢ Easy to configure, configure just through USB port on PC;

➢ PROFIBUS input/output length can be set freely,
   Max input bytes ≤ 244 bytes;
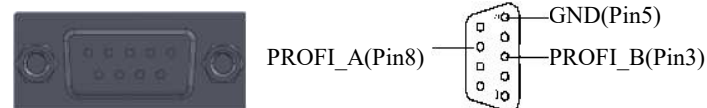   Max output bytes ≤ 244 bytes ;

CAN Interface

CAN interface is shown as below:

1   2   3   4   5

Pin	Function
1	GND, DC negative 24V (optional)
2	CAN_L
3	Shield (optional)
4	CAN_H
5	24V+, DC positive 24V (optional)

PROFIBUS DP Interface

GND(Pin5)
PROFI_A(Pin8)
PROFI_B(Pin3)

Pin	Function
3	PROFI_B, Data positive
5	GND (optional)
8	PROFI_A, Data negative

SSTComm

Appearance

Power Supply

CANopen Interface

PROFIBUS DP Indicators

CANopen Indicators

USB Config Interface

LED Display

PROFIBUS DP Interface

Configuration Switch

The DIP switch is located at the bottom of the gateway, bit 1 is function bit and bit 2 is mode bit.
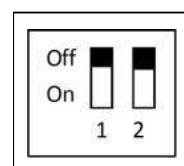
Function (bit 1)	Mode (bit 2)	Description
Off	Off	Run Mode, allow setting DP address
Off	On	Configuration Mode
On	Off	Run mode with debug function, not allow setting DP address
On	On	Run Mode, prohibit setting DP address

Notes:In addition to the above locked state, the other three states do not need to be re-powered.

Indicators

Indicators		Status	Description
PROFIBUS Status	PBF (red)	On	PROFIBUS DP connection has not been
		Off	PROFIBUS DP connection has been established
	STA (green)	Blinking	Exchanging data
		Off	PROFIBUS DP status is abnormal
CANopen Status	ERR (bicolor)	Green on	The CAN network is normal
		Red on	Bus Off
		Red, Green and Off alternately	The error counter of CAN controller reach or exceed alarm value
	RUN (bicolor)	Green on	Node is in the Operational state
		Green light on every 200ms, off every 1 000ms	Node is in the stop state
		Green light on every 200ms, off every 200ms	Node is in the Pre-operational state